

# hive systems

LOGAN RAY

25 NOVEMBER 2002 - 12 JANUARY 2003

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www.hive-systems.com

## Hive Systems www.hive-systems.com Logan Ray

virtual spaces, eventually manifested itself as physical installation. The installation is powered by a central server, or brain, located in the gallery, which serves as the main general processor, and distributor of information. The server receives input both directly from numerous sensors, cameras & triggers in the physical In some cases the installation responds directly to this input, reacting via movement, light, or response on the web site. The experiences of the interdependent. Ultimately, interaction with the Hive Systems installation is both behavioral democratic (through multiple user input).

November 25 at 6 n.m.

Storefront and Logan Ray discussed some aspects of the project:

# Storefront: What what led you to produce Hive

Logan Ray: It really came out of two places. One is the interactive work I began developing further into creating dynamic interfaces and user experiences, it was a natural extension to experiment with bringing those qualities into a physical, or built, project. Web design, especially physical properties, and I thought it would be nteresting to look at things the other way around.

The other half of my motivation arose from a electrik units, in a studio with Renny Ramakers of Droog Design, I was looking at new ways of accessing electric power in the home, and the which brought the electricity right to your fingertips. Working on these objects led to a certain aesthetic fascination (fetishization?) with home automation systems which have been developed to work with them. It is a kind of which lets these omnipresent, benign devices begin to see that every house that uses electripower is already networked, and capable of communication with others, a world of opportunities opens up.

Storefront is an attempt to create a single environment is made possible by a cheap and readily available, but put together possible by creating a local network using the

located in the physical space which can devices in the space through the x-10 protoco and interact with the web site using a Microsoft. custom database which stores and retrieves user

# SF: Where and how is feedback employed in

between the physical installation and the web site, which provides a constant loop. Feedback is different in this installation than in the one I did for my thesis at Rice, in that by using a database. concatenated, modified, and/or filtered before was always presented directly, or as the direct result of a set of conditions. The web user had to the physical installation indirectly controlled the exactly the case. Some feedback is still direct. but there will also be a great deal of information of the installation will not necessarily recognize. complex and open system. In a hive system the individual user may not be able to identify his or her own particular input, but that is not really important. What is important, or what I am most public use as a whole, the emergent hive

## SF: You have talked about the intersection of virtual and physical space and the presence of the two in this project pointing to the idea of a third space. What is that third space?

ntersection of the other two. It is the imagination The scariest movies are always those which leave the horrific parts to the imagination. When you leave space for the viewer's imagination, they than a designer can ever provide. A sense of mystery is good in all things. The curious response is one that is more open and experiential than one in which all things are understood. We always need to leave a little room for wonder, for people to figure things out

remember Bruce Mau talking about the third image, the power of juxtaposition, and how you can achieve a really powerful effect as a designer your parts to surpass the power of each taken do it all the time without even thinking of it in that way, but I think it is an interesting conceptual binder for this project.

# SF: Where does the aesthetic strategy of the

functional and derivative. For one thing it allows

from a desire to share a sense of the physical intelligence. I want to give the impression that has real awareness. Painting the installation completely white gives it the feel of a unified entity or organism, which reveals its inner workings where it is cut, sliced open in red. It is inside the circuit box, exposing the wiring, the physically express the intelligence of the space but using common elements, like a field of experience is unique, but also commonplace, and thereby perhaps more lasting.

## SF: How is telepresence implied in this project?

LR: The idea of telepresence is very promine believe for the development of architecture for the future. One thing I feel very strongly, and that I installation, is that intelligence is already there Where there is a connection, there is a nath Where there is a system of paths, there is a network. And where there is a network, it is natural that it will be used to gather information

that it gives them a chance to affect a space from anywhere around the world that they can access the internet. They can have a direct and very real downtown Manhattan from anywhere. In return directly affects the interface of the web visitor

Marshall McCluhan speaks of media as an extension of the senses. When we use the other end of the line, and the other nerson's vocalcords come over to our side. Similarly, this installation attempts to remotely translate from one group of users to another, so that there is a

The ability to experience something from afar, to immerse ourselves in non physical environments: is only growing stronger generation by generation junior high kids today who can and immerse PlayStations and GameCubes with an ease and comfort level that is astounding. We are all becoming more and more comfortable with the virtual realm. I don t know if it will, but I think it of architecture in the future.

# SF: Is there a process of translation embedded in the system? Is data/information translated into a visualization/spatial

installation and in the web interface, is designe o reflect the status of the other side. Informati from sensors and the configuration of the

the physical space. Colored bulbs don't do much the web user, and vice versa. This process of

SF: This installation or system employs ology from various realms. In the case of the x-10 technology it is targeted for domestic use by an individual user (Here I mean a home owner deciding what electrica items he/she would like to turn off/on. monitor, etc..) What are the implications of using these kinds of technologies in a public space and introducing multiple users/controllers?

complex toy, a whimsical system of control, but what types of usage patterns emerge over time Given that people are affecting each other s experience remotely, and not directly, the rules feel a bit different. Will people work together to inconsiderate to others? I m sure both will possibilities for sublime synchronicity and crass or destructive response inherent in other forms of participatory public art. But that is what makes it exciting, that you don't know what you will get.

As you brought up, the home automation equipment and techniques used, especially the x-They were created for individuals or families who wanted convenience, security, and total control over their environments. As such, one of the main obstacles in creating the hive systems installation was finding ways to modify these systems to let anyone get in.

# SF: How do you feel about automation and programming buildings to have responses

happen to architecture in a long time. what is possible, or if they do, many don t consider it architecture. We are entering a time interact with us in meaningful ways. The word more powerful meaning in terms of how spaces starting to show up in our homes, and when systems. But these will be little more than spy agencies, thinly veiled with convenient features

I would like to see a more holistic approach to the design of intelligent spaces, and I think it is the architect's role to implement it. If architects refuse to recognize interactive design as a part of will gladly rush in and take their place. I think the buildings we create will be much more interesting if architects know enough to design a dynamic system from the ground up, as opposed to simply from Microsoft or Sony. Our basic building change. They will get lighter, stronger, smarter Some of the most interesting research along these lines is going on now at MIT in a joint venture between the Media Lab and the School of Architecture called house n . One project is

building modular, intelligent systems, which are basically plug and play where building they are snapped into place. When you combine this type of infrastructure with the still developing field of kinetic structures, which can flex and move, I think we will see some very exciting

# PROJECT CREDITS

The first incarnation of this project was presented in January of 2001 as my design thesis for a Master of Architecture degree at Rice University. and John Casbarian, and to my friends and

Extra special thanks to Omayya Kanafani, who has supported me all the way.

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Special thanks to Ben Aranda.

Logan Ray and Omayya Kanafani have operated under the name Plikka Design since 1998, and together have completed numerous projects for physical objects/spaces. Both are currently working as architects at Helfand Myerberg eimer in Manhattan

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